

**COMBIMIX LOW PREP LEVELER LP720™** floor leveling underlayment offers a premium quality Calcium Alumina cement-based, pourable or pumpable floor leveling product. It is designed for use over concrete, VCT, VAT, vinyl, ceramic, terrazzo, epoxy, sound/solid gypsum underlayments, most sound reduction mat systems, epoxy coatings, and quarry tile. Its proprietary formulation allows floor coverings like ceramic tile and natural stone to be installed after 3 - 4 hours. Floor covering such as carpet, vinyl sheet goods, vinyl composition tile (VCT), cork, vinyl, and rubber can be installed in 16 to 24 hours. Specialty adhesives such as moisture cured urethanes for glue-down engineered wood, and epoxies can be installed in 3 - 5 days depending on substrate, thickness and drying conditions. Installs from 1/8" to 1 1/4" (Light-weight concrete 1/4" to 3/4").



## LP 720

### Preparation of substrate

The substrate must be clean and free of dust, cement debris, grease, or other contaminants that may prevent adhesion. The adhesion strength or surface strength may not be less than 72 psi (0.5 MPa). Substrate should be primed with COMBIMIX PP600 Primer and allow to dry. With respect to the formation of a film on the primer, the temperature of the substrate may not be lower than 43°F (6°C). For best results the temperature at the work site should be between 50°F (10°C) and 77°F (25°C). At higher or lower temperatures the time for hardening will be shorter or longer, respectively. New concrete slabs must be allowed a minimum of 30 days prior to capping with LP Leveler 720 to allow for the concrete to hydrate and loose mass. Otherwise, cracking may occur due to settling of the concrete substrate or telegraphing of cracks. Please note, moving cracks in older concrete may telegraph through the topping if they continue to move. The guideline of 90 % RH should be set for the concrete pad as the upper limit for smoothing work.

### Mixing

**MANUAL MIXING:** COMBIMIX Low Prep™ should be mixed with max 4.2 quarts (4.0 L/max 20%) of water per 44 lb. bag. Do not over-water. Add product to water and mix for 3 minutes with a heavy duty drill (650 minimum rpm) to obtain a lump-free mix.

**PUMP MIXING:** COMBIMIX Low Prep™ can also be used in most pump equipment. Start pump at a minimum of 110 gallons of water per hour and adjust as necessary to yield a self leveling consistency. A slump test should always be performed to ensure that mix is homogenized and free from separation.

### Application

Apply blended material onto substrate at a thickness of 1/8" to 1 1/4" (3-30 mm) for all surfaces. Immediately pour, set thickness using a Combimix Gauge Rake at necessary depth and smooth the mixed material using a Combimix serrated smoother while continuously pouring ribbons tying into a wet edge. Material can be walked on after 1 to 3 hours. Protect LP Leveler 720 from excessive heat or draft conditions during the curing process. Turn off all forced ventilation and radiant heating systems that may directly blow air on the fresh or damp surface of LP Leveler 720 as this may change the color of the finished product and may cause surface imperfections such as pin holes. Protect for up to 24 hours after completed installation.

**DO NOT USE COMBIMIX LP LEVELER 720 AS A WEAR SURFACE TOPPING AS A HIGHER ABRASION RESISTANCE, NOT COMPRESSIVE STRENGTH, IS NECESSARY FOR THESE APPLICATIONS.**

Instead use COMBIMIX LP Industrial 920 or COMBIMIX LP QuickSet 740 see individual product literature for more information.

### Performance characteristics

- ✓ Pour depths of 1/8" to 1 1/4" (Can be applied up to 20" with the addition of pea gravel aggregate).
- ✓ Walkable in 1-3 hours. Most finished floor goods can be applied as soon 16 hours, depending on thickness, drying conditions and type of finished floor.
- ✓ Water damage stable.
- ✓ 80% less shrinkage (tensile pull) than traditional Portland Cement-based leveling compounds.
- ✓ Acts as an alkalinity barrier when installed at depths greater than 1/8".
- ✓ This product provides a suitable surface for the installation of most finished floor goods to include: carpet, heterogeneous and homogeneous vinyl, VCT, athletic flooring, linoleum, cork, rubber, laminate, ceramic tile, marble, natural stone, porcelain, glass tile, glue-down hardwood (solid or engineered plank and parquet) flooring.
- ✓ Coverage: approximately 25 sq. ft. per 44 lb. bag at 1/4" thickness.
- ✓ Can be applied directly over wet concrete (RH 90% or less per ASTM F2170) without risk of deterioration of adhesives and subsequent bond loss of glued-down goods\*.
- ✓ Protein free; will not contribute to or harbor growth of mold, mildew or bacteria.
- ✓ Indoor air quality safe (IAQ), will not contribute to damaging emissions or irritating fumes.

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**\* Please note all flooring materials have different permeability rates of moisture. Please consult Combimix prior to installing products in moisture condition out of flooring manufacturer's specifications. Combimix will make specific recommendations based on flooring type, adhesives used and environmental conditions.**



## Flooring installation

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## Limitations

Not for installation over wood, metal or radiant heated substrates. For indoor applications only. For installations over metal, wood or radiant heated floors, use COMBIMIX Low Prep Fiber LP760 to compensate for the additional flexural strength required.

## Storage time and packaging

Six months under dry conditions. COMBIMIX Low Prep Leveler LP 720 is delivered in vinyl-lined paper bags of 44 lbs/20 kg and super sack.

## Residues and safety instructions

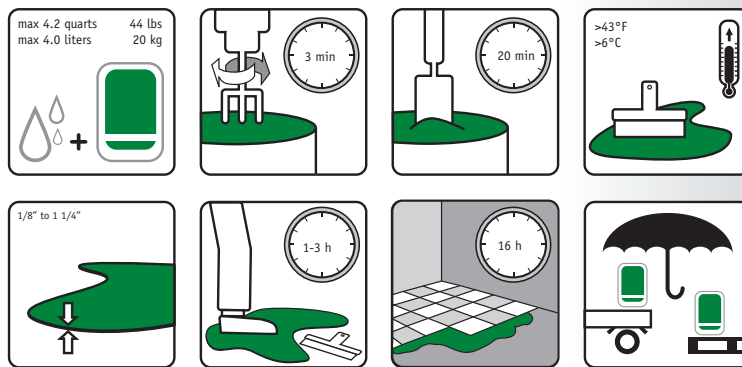
Empty sacks should be burned. Remaining powder should be stored under dry and air-tight conditions within the applicable storage time or mixed with water and allowed to harden. It can then be disposed of as construction waste. The product may not be put into the waste water system. The cement contained in the product is chromate reduced.

## Documents regarding health, environment, safety, and technical service

The current version of the product sheet, CE document, description of construction materials, and the safety data sheet are found at [www.combimix.com](http://www.combimix.com). Previous undated and dated versions are no longer applicable. For more information please contact our sales organization.

This product information sheet contains general instructions. Use of the product occurs under many varied conditions and prerequisites. Combimix is not responsible for storage, use in construction, working or implementation, concurrent effects with other products, use limited by local conditions, or other external factors. Combimix is also not responsible in cases where the above information is incorrectly interpreted or departed from by the user.

**WARNING:** Dust may cause skin, eye, nose, throat, or respiratory irritation. Avoid dust inhalation and exposure to dust. If dusty, wear a NIOSH/MSHA-approved dust respirator. Use proper ventilation to reduce dust exposure. Cement is strongly alkaline and can be corrosive to eyes, skin and respiratory tract. Wear eye and skin protection. If eye contact occurs, immediately flush thoroughly with water for 15 minutes and get medical attention. Do not ingest. If ingested and any discomfort occurs, call physician.



## Technical data

Tensile Bond Strength	> 435 psi
Flexural Strength	1160 psi (ASTM C-348)
Compressive Strength (28 days)	4350 psi (ASTM C-109 modified)
Shrinkage	0.01-0.03% (ASTM D-4060)
pH (wet-state)	11
Working time	15-20 minutes
Ideal slump range	max 5 1/2" (140 mm)
Emissions (ammonia development)	0.7 mg/m <sup>3</sup>
Installed weight per ft <sup>2</sup> @ 1/4" thickness	1.76 lbs

**PRODUCT GROUP: FLOOR • PRODUCT CODE: S1 • VERSION: 4 • DATE: January 28, 2008**



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